

PRELIMINARY AMENDMENT
U.S. Appln. No. 09/878,916



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REMARKS

Entry and consideration of the above changes is respectfully requested. No new matter has been added by this amendment.

Specifically, Fig. 17 was inadvertently left out of the application when filed. However, the specification, as originally filed, fully describes the embodiment of the present invention which is illustrated in the block diagram of Fig. 17. Fig. 17 depicts a de-interlacing apparatus having four elements: a motion-compensated interpolation unit 172, a motion evaluation unit 174, a spatiotemporal interpolation unit 176, and a motion adaptation unit 178. The operation of these elements and the inter-relationships among these elements are fully described in the specification. For example, at pages 15-16 of the specification, the operation of the de-interlacing apparatus of Fig. 17 is described as follows:

[A] motion-compensated interpolation unit 172 interpolates with the mean of pixels using the interpolation value of a frame, that is a motion vector, as shown in FIG. 13 according to the present invention, or outputs the median value of pixel values, to which a motion vector is applied, the mean value of the pixels, and the value between two pixels which are vertically neighboring a pixel to be interpolated.

A spatiotemporal interpolation unit 176 outputs the mean value of pixels neighboring a pixel to be interpolated and pixels on the locations to be interpolated in the previous field and the next field of the field to be interpolated, as the interpolation value of a frame.

A motion evaluation unit 174 evaluates the degree of motion using the MAD value of the current block calculated in the motion estimating unit 410 of FIG. 13.

A motion adaptation unit 178 sets the value of a pixel to be finally interpolated by adaptively calculating the output value of the motion-

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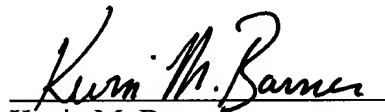
compensated interpolation unit 172 and the output value of the spatiotemporal interpolation unit 176 according to the degree of motion evaluated in the motion evaluation unit 174.

Further, at least claim 19 is drawn to the embodiment illustrated in Fig. 17.

Accordingly, no new matter has been added by the addition of Fig. 17.

Applicant hereby petitions for any extension of time which may be required to maintain the pendency of this case, and any required fee, except for the Issue Fee, for such extension is to be charged to Deposit Account No. 19-4880.

Respectfully submitted,


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APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE DRAWINGS:

Please see attached Fig. 17.